## EAST Search History

| Ref # | Hits | Search Query  | DBs                | Default<br>Operator | Plurals | Time Stamp          |
|-------|------|---|--------------------|---------------------|---------|---------------------|
| S1    | 46   | ["20020088220"   "20020124568"   "20020148220"   "20020152745"   "20030033799"   "20030077212"   "5085840"   "5367264"   "5540047"   "5546004"   "5594163"   "5628186"   "5643536"   "5717339"   "5809774"   "5809775"   "5849593"   "5884475"   "5929754"   "6003305"   "6063350"   "6125629"   "6167698"   "6173568"   "6214195"   "6247303"   "6266955"   "6293097"   "6297733"   "6311484"   "6357226"   "6363716"   "6363771"   "6406619"   "6415602"   "6422005"   "6427439"   "6446430"   "6467257"   "6502390"   "6517702"   "6519935"   "6531704"   "6546720"   "6550250"   "6581374").PN. | US-PGPUB;<br>USPAT | OR                  | OFF     | 2008/06/12<br>13:05 |
| S2    | 1    | berryhill.in. and reagent adj solution adj quality.ti.  | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>13:23 |
| S3    | 3    | S1 and quality and filter   | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>13:26 |
| S4    | 3    | S1 and quality and filter and value   | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>13:26 |
| S5    | 0    | S1 and quality and filter same value  | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>13:27 |
| S6    | 77   | solution with quality same filter same value  | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>13:27 |
| S7    | 5    | solution with quality same filter same threshold with value   | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>13:28 |
| S8    | 631  | quality same filter same threshold with value   | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>13:59 |
| S9    | 7    | (liquid fluid solution reagent) with quality same filter same threshold with value  | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>13:59 |
| S10   | 239  | ((liquid fluid solution reagent) with filter same threshold with value  | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/06/12<br>14:00 |

| S11 | 31   | (liquid fluid solution reagent) with filter same threshold with value and quality with filter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:01 |
|-----|------|---|---------------------------|----|-----|---------------------|
| S12 | 35   | (liquid fluid solution reagent) with filter same threshold with value and (ability quality) with filter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:01 |
| S13 | 178  | compar\$4 with quality same threshold with value and (ability quality) with filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:02 |
| S14 | 0    | purif\$6.ti. and compar\$4 with quality same threshold with value and filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:07 |
| S15 | 9    | purif\$6 and compar\$4 with quality same threshold with value and filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:07 |
| S16 | 0    | purif\$6 and compar\$4 with quality same threshold with value and first adj filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:09 |
| S17 | 149  | compar\$4 with quality and threshold with value and first adj<br>filter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:10 |
| S18 | 5    | compar\$4 with quality same first adj filter and threshold with value   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:11 |
| S19 | 192  | combustion adj engine same quality same filter\$4   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:14 |
| S20 | 2    | combustion adj engine same determin\$4 near2 quality same filter\$4   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:15 |
| S21 | 34   | [("20030036841"   "20030070420"   "20040040289"   ["20040098980"   "4403473"   "4751054"   "4963332"   ["5367875"   "5522218"   "5643536"   "5753805"   ["5941067"   "6082102"   "6092367"   "6119448"   ["6126629"   "6209313"   "6209315"   "6253543"   ["6327851"   "6343468"   "6401450"   "6408619"   ["6415602"   "6422005"   "6470673"   "6532736"   ["6546720"   "6601387"   "6658364"   "6697729"   ["6732522").PN. OR ("7067319").URPN. | US-PCPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/12<br>14:21 |
| S22 | 1116 | combustion adj engine same quality with (reagent reactant fuel)   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:38 |
| S23 | 62   | combustion adj engine same quality with (reagent reactant fuel) with (detect\$4 sens\$4)  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/12<br>14:38 |

| S24 | 228 | combustion adj engine and quality with (reagent reactant fuel) with (detect\$4 sens\$4)  | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>14:39 |
|-----|-----|--|---|----|----|---------------------|
| S25 | 77  | combustion adj engine and quality with (reagent reactant fuel) with (detect\$4 sens\$4) and filter   | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>14:47 |
| S26 | 67  | combustion adj engine and quality with (reagent reactant fuel) with (detect\$4 sens\$4) and filter and value   | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>14:48 |
| S27 | 21  | combustion adj engine and quality with (reagent reactant fuel) with (detect\$4 sens\$4) and filter same value  | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>15:06 |
| S28 | 1   | combustion adj engine and quality with (reagent reactant fuel) with (detect\$4 sens\$4) same filter same value   | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>15:06 |
| S29 | 1   | combustion adj engine and quality with (reagent reactant fuel) with (detect\$4 sens\$4) and averag\$4 near2 filter same value with (threshold exceed\$4 compar\$4) | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>15:08 |
| S30 | 1   | combustion adj engine and quality with (detect\$4 sens\$4) and averag\$4 near2 filter same value with (threshold exceed \$4 compar\$4)                             | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>15:08 |
| S31 | 4   | engine and quality with (detect\$4 sens\$4) and averag\$4 near2 filter same value with (threshold exceed\$4 compar\$4)   | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>15:09 |
| S32 | 4   | engine and quality with (detect\$4 sens\$4) and averag\$4 near2 filter same value with (threshold exceed\$4 compar\$4)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>15:09 |
| S33 | 5   | engine and (purity quality contamin\$5) with (detect\$4 sens \$4) and averag\$4 near2 filter same value with (threshold exceed\$4 compar\$4)                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>15:10 |

| S34 | 438   | engine and (purity quality contamin\$5) with (detect\$4 sens<br>\$4) and filter same value with (threshold exceed\$4 compar<br>\$4 reference) | US-PGPUB;<br>USPAT;<br>USCCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/12<br>15:12 |
|-----|-------|---|---|----|-----|---------------------|
| S35 | 340   | engine and (purity quality) with (detect\$4 sens\$4) and filter same value with (threshold exceed\$4 compar\$4 reference)                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/12<br>15:12 |
| S36 | 338   | engine and (purity quality) with (detect\$4 sens\$4) and filter same value with (threshold exceed\$4 compar\$4 reference)                     | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2008/06/12<br>15:29 |
| S37 | 4     | engine and (purity quality) with (detect\$4 sens\$4) and first adj filter same value with (threshold exceed\$4 compar\$4 reference)           | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2008/06/12<br>15:31 |
| S38 | 429   | (73/35.01,35.02,35.03,35.04,35.05,35.06).OCLS.  | US-PGPUB;<br>USPAT  | OR | OFF | 2008/06/18<br>14:23 |
| S39 | 49    | S38 and filter same threshold   | US-PGPUB;<br>USPAT  | OR | ON  | 2008/06/18<br>14:23 |
| S40 | 55601 | exhaust and emission  | US-PGPUB;<br>USPAT  | OR | ON  | 2008/06/18<br>14:39 |
| S41 | 16468 | exhaust and emission and catalyst   | US-PGPUB;<br>USPAT  | OR | ON  | 2008/06/18<br>14:39 |
| S42 | 3125  | exhaust and emission and catalyst and threshold   | US-PGPUB;<br>USPAT  | OR | ON  | 2008/06/18<br>14:40 |
| S43 | 1477  | exhaust and emission and catalyst and threshold and filter  | US-PGPUB;<br>USPAT  | OR | ON  | 2008/06/18<br>14:40 |

| S44 | 3125 | exhaust and emission and catalyst and threshold samefilter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:40 |
|-----|------|--|---------------------------|----|-----|---------------------|
| S45 | 348  | exhaust and emission and catalyst and threshold same filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:40 |
| S46 | 424  | (73/114.69,114.71,114.75).OOLS.  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/06/18<br>14:43 |
| S47 | 20   | S46 and threshold same filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:43 |
| S48 | 1    | S46 and threshold same first adj filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:44 |
| S49 | 17   | ("4295363"   "4527422"   "4866980"   "5044195"  <br>"5095742"   "5109695"   "5258753"   "5275037"  <br>"5297047"   "5305635"   "5307671").PN. OR ("5394744").<br>URPN. | US-PGPUB;<br>USPAT; USOOR | OR | OFF | 2008/06/18<br>14:46 |
| S50 | 9    | S49 and filters  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/18<br>14:46 |
| S51 | 4    | S49 and filters same threshold   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/18<br>14:46 |
| S52 | 2    | S49 and filters same threshold and emission  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/18<br>14:47 |
| S53 | 1    | S49 and filters same threshold and emission and quality  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/18<br>14:47 |
| S54 | 3    | S46 and threshold same (second first) near2 filter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:48 |
| S55 | 3    | S46 and threshold same (second first multiple least pluality) near2 filter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:49 |
| S56 | 3    | S46 and threshold same (second first multiple least plurality) near2 filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:49 |
| S57 | 0    | exhaust and emission and catalyst and threshold same filter same quality and catalytic adj converter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:56 |
| S58 | 3    | exhaust and emission and threshold same filter same quality and catalytic adj converter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>14:56 |

| S59 | 0   | S46 and threshold same averag\$4 adj filter  | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>14:57 |
|-----|-----|--|--------------------|----|----|---------------------|
| 360 | 2   | S46 and threshold same filter and averag\$4 adj filter   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>14:57 |
| 361 | 0   | S46 and catalyst and quality with (reactant reagent)   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>15:06 |
| 362 | 5   | S46 and catalytic adj converter with quality   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>15:07 |
| S63 | 0   | S46 and catalytic adj converter with quality with solution   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>15:09 |
| S64 | 3   | catalytic adj converter with quality with solution   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>15:10 |
| S65 | 5   | catalytic adj converter and averag\$4 adj filter same threshold  | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>15:10 |
| S66 | 0   | catalytic adj converter same (reactant reagent) near2 solution with quality  | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:08 |
| S67 | 0   | catalytic adj converter same (urea) near2 solution with quality  | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:10 |
| S68 | 0   | catalytic adj converter same (urea) with quality   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:10 |
| S69 | 320 | catalytic adj converter same (urea)  | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:10 |
| S70 | 138 | catalytic adj converter same (urea) with (fed deliver\$4 suppl<br>\$4)   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:11 |
| S71 | 0   | catalytic adj converter same (urea) with (fed deliver\$4 suppl<br>\$4) and (monitor\$4 determin\$4 diagnos\$4) with quality with<br>urea | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:12 |
| S72 | 35  | catalytic adj converter same (urea) with (fed deliver\$4 suppl<br>\$4) and (monitor\$4 determin\$4 diagnos\$4) with urea                 | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:13 |
| S73 | 1   | catalytic adj converter same (urea) with (fed deliver\$4 suppl<br>\$4) and (quality purity) with urea                                    | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:15 |
| S74 | 2   | catalytic adj converter same (urea) and (quality purity) with urea   | US-PGPUB;<br>USPAT | OR | ON | 2008/06/18<br>16:16 |

| 385 | 9   | S34 and threshold   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>17:36 |
|-----|-----|---|--------------------|----|-----|---------------------|
| 584 | 46  | ("20020088220"   "20020124568"   "20020148220"   "20020152745"   "20030033799"   "20030077212"   "5085840"   "5367264"   "5540047"   "5546004"   "5594163"   "5628186"   "5643536"   "5717339"   "5809774"   "5809775"   "5849593"   "5884475"   "5929754"   "6003305"   "6063350"   "6125629"   "6167698"   "6173568"   "6214195"   "6247303"   "6266955"   "6293097"   "6297733"   "6311484"   "6357226"   "6363716"   "6363771"   "6408619"   "6415602"   "6422005"   "6427439"   "6446430"   "6467257"   "6502390"   "6517702"   "6519935"   "6531704"   "6546720"   "6550250"   "6581374").PN. | US-PGPUB;<br>USPAT | OR | OFF | 2008/06/18          |
| S83 | 23  | catalytic adj converter and (monitor\$4 determin\$4 diagnos<br>\$4 measur\$4 calculat\$4) with (concentration purity quality)<br>near2 urea   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:48 |
| S82 | 47  | catalytic adj converter and (monitor\$4 determin\$4 diagnos<br>\$4 measur\$4 calculat\$4) with (concentration purity quality)<br>with urea  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:46 |
| 381 | 6   | \$4 measur\$4 calculat\$4) with (concentration purity quality) with urea  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:45 |
| S80 | 11  | catalytic adj converter same (monitor\$4 determin\$4 diagnos<br>\$4) with urea  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:40 |
| S79 | 2   | catalytic adj converter same urea and (quality purity) with urea  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:40 |
| S78 | 320 | catalytic adj converter same urea   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:39 |
| S77 | 1   | catalytic adj converter same (fed deliver\$4 suppl\$4) same (monitor\$4 determin\$4 diagnos\$4) with (purity quality)   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:38 |
| S76 | 8   | (S46 catalytic adj converter) and (quality purity) with urea  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:36 |
| S75 | 2   | (S46 catalytic adj converter) same (urea) and (quality purity) with urea  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>16:35 |

| S86  | 4    | S84 and threshold and filter  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>17:36 |
|------|------|---|--------------------|----|-----|---------------------|
| S87  | 11   | (US-20050207936-\$ or US-20030033799-\$ or US-20030209011-\$ or US-20040050362-\$ or US-20040251919-\$).did. or (US-5803047-\$ or US-5394744-\$ or US-6845314-\$ or US-5602331-\$ or US-6826471-\$ or US-7030629-\$).did. | US-PGPUB;<br>USPAT | OR | OFF | 2008/06/18<br>17:38 |
| 588  | 1    | S87 and range with threshold  | US-PGPUB;<br>USPAT | OR | OFF | 2008/06/18<br>17:38 |
| S89  | 395  | comparator with comparator with threshold near2 range   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>17:41 |
| S90  | 395  | comparator with threshold near2 range   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>17:41 |
| S91  | 61   | comparator with threshold near2 range same upper with lower   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>17:41 |
| S92  | 2    | catalytic adj converter and comparator with threshold near2 range   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>17:43 |
| S93  | 638  | (monitor\$4) with catalytic adj converter   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>18:10 |
| S94  | 0    | (monitor\$4) with catalytic adj converter same wireless   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>18:10 |
| S95  | 0    | (monitor\$4) with catalytic adj converter and wireless adj signal   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>18:10 |
| S96  | 16   | (monitor\$4) with catalytic adj converter and wireless  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>18:10 |
| S97  | 1    | long adj range adj averag\$4 adj filter   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>19:24 |
| S98  | 4231 | averag\$4 adj filter  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>19:24 |
| S99  | 0    | first adj averag\$4 adj filter with difference with second adj<br>averag\$4 adj filter same threshold   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>19:25 |
| S100 | 5    | first adj averag\$4 adj filter with second adj averag\$4 adj<br>filter same threshold   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>19:26 |

| S101 | 28  | first adj filter with second adj filter with difference same threshold   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>19:28 |
|------|-----|--|--------------------|----|-----|---------------------|
| S102 | 13  | (US-20050207936-\$ or US-20030033799-\$ or US-20030209011-\$ or US-20040050362-\$ or US-20040251919-\$).did. or (US-5803047-\$ or US-5394744-\$ or US-6845314-\$ or US-502331-\$ or US-6826471-\$ or US-7030629-\$ or US-5781871-\$ or US-6029044-\$).did. | US-PGPUB;<br>USPAT | OR | OFF | 2008/06/18<br>22:06 |
| S103 | 2   | S102 and noise same difference   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>22:06 |
| S104 | 262 | filter with filter with difference same threshold with range   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>22:23 |
| S105 | 179 | filter with filter with difference with threshold with range   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>22:23 |
| S106 | 1   | filter with filter with difference with threshold with range and averag\$4 adj filter  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>22:23 |
| S107 | 30  | filter with value with difference with threshold and averag\$4 adj filter  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>22:38 |
| S108 | 3   | filter with value with difference with threshold and averag\$4 adj filter and detect\$4 with (abnormal\$5 fault malfunction \$4)   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>22:40 |
| S109 | 0   | first adj filter with value with difference with threshold and averag\$4 adj filter and detect\$4 with (abnormal\$5 fault malfunction\$4)  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>22:41 |
| S110 | 0   | first adj filter with difference with threshold and averag\$4 adj filter and detect\$4 with (abnormal\$5 fault malfunction \$4)  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>22:42 |
| S111 | 2   | first adj filter with difference with threshold and detect\$4 with (abnormal\$5 fault malfunction\$4)  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>23:22 |
| S112 | 2   | first adj filter with difference with threshold and detect\$4 with (abnormal\$5 fault malfunction\$4 fail\$4)  | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>23:22 |
| S113 | 3   | first adj filter with difference with threshold and averag\$4 adj filter   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>23:23 |
| S114 | 3   | first adj filter with difference same threshold and averag\$4 adj filter   | US-PGPUB;<br>USPAT | OR | ON  | 2008/06/18<br>23:23 |

| S115 | 12  | first near2 filter with difference same threshold and averag<br>\$4 adj filter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>23:23 |
|------|-----|--|---------------------------|----|-----|---------------------|
| S116 | 21  | averag\$4 adj filter with difference same threshold and averag\$4 adj filter   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>23:32 |
| S117 | 21  | averag\$4 adj filter with difference same threshold  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/18<br>23:33 |
| S118 | 424 | (73/114.69,114.71,114.75).OOLS.  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/06/19<br>00:05 |
| S119 | 5   | S118 and averag\$4 adj filter  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>00:05 |
| S120 | 12  | S118 and filter with difference  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>00:07 |
| S121 | 19  | ("5255515").PN. OR ("5431011").URPN.   | US-PGPUB;<br>USPAT; USOOR | OR | OFF | 2008/06/19<br>00:12 |
| S122 | 11  | S121 and filter  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/19<br>00:12 |
| S123 | 1   | S121 and filter with difference  | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:12 |
| S124 | 17  | ("4295363"   "4527422"   "4866980"   "5044195"  <br>"5095742"   "5109695"   "5258753"   "5275037"  <br>"5297047"   "5305635"   "5307671").PN. OR ("5394744").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/19<br>00:13 |
| S125 | 2   | S124 and filter with difference  | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:14 |
| S126 | 15  | (US-20050207936-\$ or US-20030033799-\$ or US-20030209011-\$ or US-20040050362-\$ or US-20040251919-\$).did. or (US-5803047-\$ or US-5394744-\$ or US-6845314-\$ or US-5602331-\$ or US-6826471-\$ or US-7030629-\$ or US-5781871-\$ or US-6029044-\$ or US-5431011-\$ or US-557933-\$).did. | US-PGPUB;<br>USPAT        | OR | OFF | 2008/06/19<br>00:45 |

| S127 | 15   | (US-20050207936 \$ or US-20030033799 \$ or US-20030209011-\$ or US-20040050362-\$ or US-20040251919-\$), did. or (US-5803047-\$ or US-5394744-\$ or US-6845314-\$ or US-5602331-\$ or US-6826471-\$ or US-7030629-\$ or US-5781871-\$ or US-6029044-\$ or US-5431011-\$ or US-557933-\$), did.  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/06/19<br>00:45 |
|------|------|---|---------------------------|----|-----|---------------------|
| S128 | 4    | S127 and filter with difference   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:45 |
| S129 | 4620 | threshold adj range   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:47 |
| S130 | 192  | threshold adj range with difference   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:48 |
| S131 | 16   | threshold adj range with difference with filter   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:48 |
| S132 | 14   | (catalytic adj converter catalytic adj combustion adj engine) and threshold with difference with filter   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/19<br>00:51 |
| S133 | 3    | (catalytic adj converter catalytic adj combustion adj engine) and noise with difference with filter   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:54 |
| S134 | 2    | S127 and refill\$4  | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:56 |
| S135 | 7    | (catalytic adj converter catalytic adj combustion adj engine) and urea with empty   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>00:58 |
| S136 | 15   | (US-20050207936-\$ or US-20030033799-\$ or US-20030209011-\$ or US-20040050362-\$ or US-20040251919-\$), did. or (US-5803047-\$ or US-5394744-\$ or US-6845314-\$ or US-5602331-\$ or US-6826471-\$ or US-7030629-\$ or US-5781871-\$ or US-6029044-\$ or US-5431011-\$ or US-5557933-\$), did. | US-PGPUB;<br>USPAT        | OR | OFF | 2008/06/19<br>11:31 |
| S137 | 5    | S136 and noise  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>11:31 |
| S138 | 2    | S136 and noise with difference  | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>11:32 |
| S139 | 3    | S136 and switch\$4 same temperature   | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>12:18 |

| S140 | 171 | (catalytic adj converter catalytic adj combustion adj engine) and threshold same filter and temperature with filters                   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>12:24 |
|------|-----|--|---------------------------|----|-----|---------------------|
| S141 | 18  | (catalytic adj converter catalytic adj combustion adj engine) and threshold same filter and temperature with filters                   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/19<br>12:24 |
| S142 | 424 | (73/114.69,114.71,114.75).OOLS.  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/06/19<br>12:26 |
| S143 | 0   | (catalytic adj converter catalytic adj combustion adj engine S142) and threshold same filter and temperature with circuit with filters | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/19<br>12:26 |
| S144 | 2   | (catalytic adj converter catalytic adj combustion adj engine S142) and threshold same filter and temperature with circuit with filters | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/19<br>12:26 |
| S145 | 175 | (catalytic adj converter catalytic adj combustion adj engine S142) and threshold same filter and temperature with filters              | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2008/06/19<br>12:36 |
| S146 | 69  | (catalytic adj converter catalytic adj combustion adj engine<br>S142) and threshold same filter with temperature                       | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>12:36 |
| S147 | 69  | (catalytic adj converter catalytic adj combustion adj engine<br>S142) and threshold same filter with temperature                       | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>12:36 |
| S148 | 3   | (catalytic adj converter catalytic adj combustion adj engine<br>S142) and threshold same filter with temperature and urea              | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>12:39 |
| S149 | 4   | (catalytic adj converter catalytic adj combustion adj engine \$142) and threshold same filter with temperature with depend\$4          | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>12:41 |
| S150 | 12  | (catalytic adj converter catalytic adj combustion adj engine<br>S142) and threshold same filter and urea                               | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>12:52 |
| S151 | 12  | (catalytic adj converter catalytic adj combustion adj engine<br>\$142) and threshold same filter and urea and temperature              | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>12:52 |
| S152 | 5   | (catalytic adj converter catalytic adj combustion adj engine<br>S142) and threshold same averag\$4 near1 filter                        | US-PGPUB;<br>USPAT        | OR | ON  | 2008/06/19<br>12:58 |
| S153 | 15  | ("5255511"   "5307626"   "5339628"   "5355671").PN. OR ("5630315").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/06/19<br>13:02 |
| S154 | 0   | S153 and filter same threshold   | US-PGPUB;<br>USPAT; USOOR | OR | ON  | 2008/06/19<br>13:03 |

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